Serial no.: 10/635,706 Inventor: Jerrold V. Hauck, et al. Docket No.: APPL-P2834DVB Page 1 of13



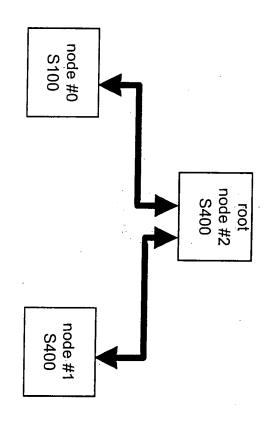


102 104 106

DP Clocked Data DE

Fig.1 (Prior Art) Alpha Format Packet

Fig. 2 (Prior Art)
Legacy Compatibility Example



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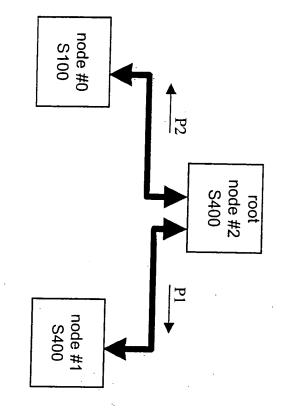


Fig. 3 (Prior Art) Legacy Speed Filtering Example

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Title: METHOD AND APPARATUS FOR BORDER NODE BEHAVIOR ON A FULL-DUPLEX BUS Attorney: John W. Crosby
Sierra Patent Group, Ltd.



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<u>Sbl DP1 B1 ... Bn DE1 DE2</u> .

Fig. 4 (Prior Art) P1394b Packet Format Serial no.: 10/635,706 Inventor: Jerrold V. Hauck, et al. Docket No.: APPL-P2834DVB Page 5 of 13



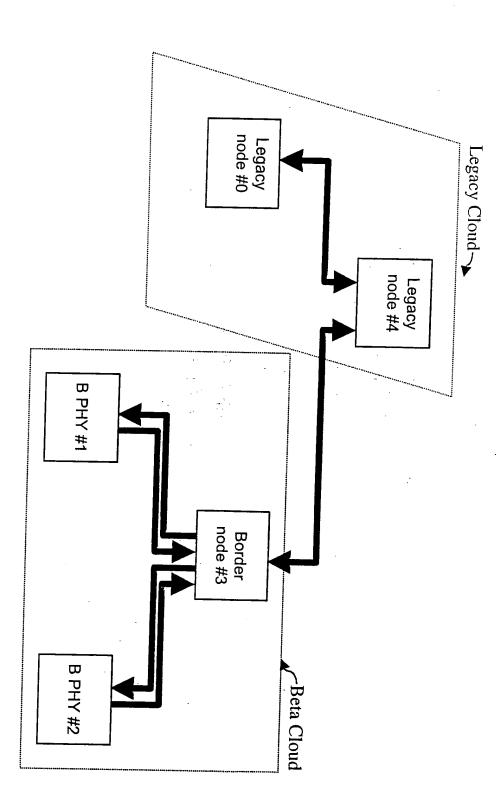


Fig. 5 (Prior Art)
Data Communications System Having both
P1394b and Legacy Devices

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Attorney: John W. Crosby Sierra Patent Group, Ltd.



Begin 601 ح 600 Forward Asynch and Isoch requests as normal Am I a border node? Detection and Communication of Hybrid Bus Z According to the Present Invention 602 -809 604 requests to forward on requests to forward on Are there any Asynch Are there any Isoch Issue Border\_low Issue Border\_low this port? this port? Z Z Forward requests Forward requests 603

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Attorney: John W. Crosby Sierra Patent Group, Ltd.



1 Speed Co

Speed C

DP2

Data.

Fig. / (Prior Art)
Legacy Format Packet

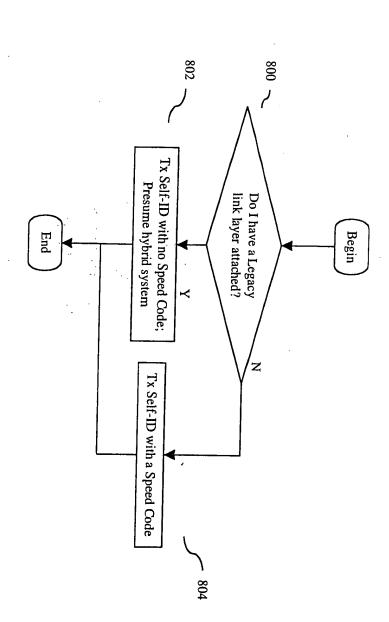
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Filed: August 5, 2003 Title: METHOD AND APPARATUS FOR BORDER NODE BEHAVIOR ON A FULL-DUPLEX BUS Attorney: John W. Crosby Sierra Patent Group, Ltd.





## Detection and Communication of a Legacy Link Layer According to the Present Invention



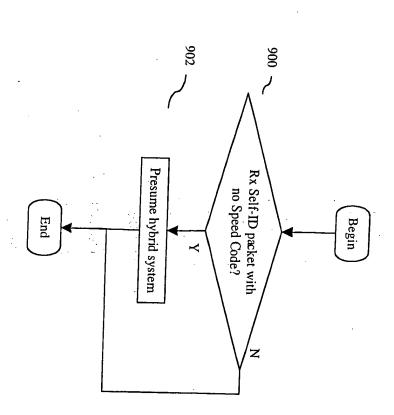
Serial no.: 10/635,706 Inventor: Jerrold V. Hauck, et al. Docket No.: APPL-P2834DVB Page 9 of 13 Filed: August 5, 2003
Title: METHOD AND APPARATUS FOR BORDER NODE BEHAVIOR ON A FULL-DUPLEX BUS Attorney: John W. Crosby
Sierra Patent Group, Ltd.



Fig. 9

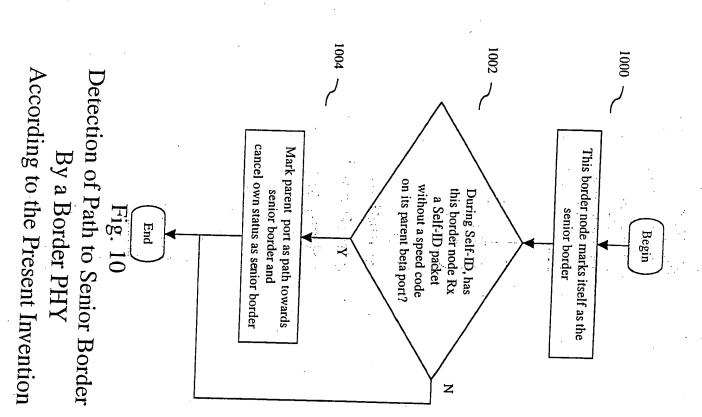
Detection and Communication of Hybrid Bus

According to the Present Invention



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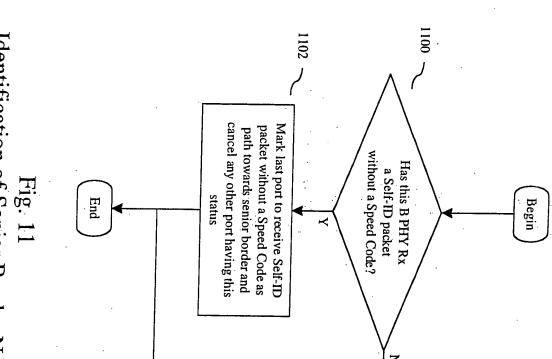




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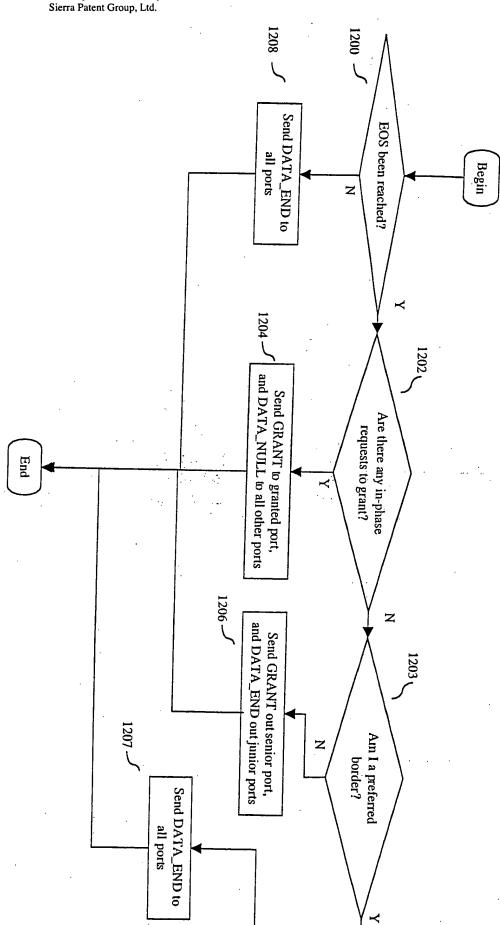


Identification of Senior Border Node According to the Present Invention By a B PHY

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Attorney: John W. Crosby
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Restoring Senior Border as BOSS According to the Present Invention

Fig. 12

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(BADEN)

Filed: August 5, 2003 Title: METHOD AND APPARATUS FOR BORDER NODE BEHAVIOR ON A FULL-DUPLEX BUS Attorney: John W. Crosby Sierra Patent Group, Ltd.

(After asynchronous packet) (After asynchronous packet) End of Isoch Packet EOP EOP EOP B Bus ACK Missing EOP EOP EOP SAG SAG SAG **Hybrid Bus** ARG ARG ARG

According to the Present Invention OK\_TO\_GRANT Profile